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## minibend® L - minibend L



### High performance, low loss, phase stable

also available as an 'R' ruggedized assembly




**The low loss version of the original minibend®**

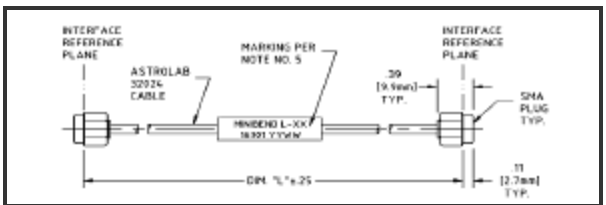
### Product Description

minibend® L is an enhanced, low loss version of the minibend flexible coaxial cable assembly which is designed for use in low profile, internal, point-to-point interconnections between RF modules within communications systems. minibend® L replaces small custom semi-rigid cable with standard flexible cables eliminating the need for predefined custom lengths and bend configurations. minibend® L provides you with a preassembled and tested high performance, cost effective alternative in a variety of standard lengths.

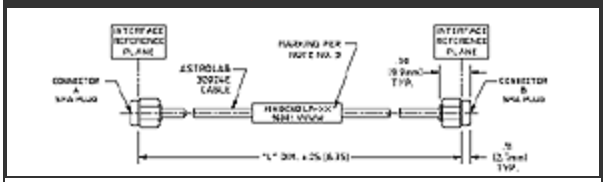
### Product Features

- Microporous dielectric for insertion loss lower than .086" semi-rigid cable.
- Precision stainless steel SMA plug connectors (Patented - US Patent Office)
- Stock delivery on standard lengths
- 99.9% lead free
- Eliminates need for costly right angle connectors
- Guaranteed 15 lbs. pull force
- Triple shielded for high isolation
- Frequency range up to 26.5 GHz
- Low Cost

Also available in LA (with SSMA plug connectors, 26.5 GHz), LS (with SMA plug/SMP socket connectors, 18 GHz) and L2S (with SMP socket connectors, 18 GHz) versions.




**Click on image for full size minibend L Detail Drawing in Adobe 'PDF' format**



Click on image for full size minibend LR
Detail Drawing in Adobe 'PDF' format

## Electrical Specifications:

| Assembly No. | Ref. No. | DIM. " L" | 1.0 GHz VSWR | 1.0 GHz LOSS, dB | 12.4 GHz VSWR | 12.4 GHz LOSS, dB | 18.0 GHz VSWR | 18.0 GHz LOSS, dB | 26.5 GHz VSWR | 26.5 GHz LOSS, dB |
|---|---|---|---|---|---|---|---|---|---|---|
| minibend L-2.5 | 32024-2-29094C-2.5 | 2.50 (63.5) | 1.16:1 | 0.13 | 1.25:1 | 0.33 | 1.37:1 | 0.44 | 1.45:1 | 0.54 |
| minibend L-3 | 32024-2-29094C-3 | 3.00 (76.2) | 1.16:1 | 0.14 | 1.25:1 | 0.36 | 1.37:1 | 0.47 | 1.45:1 | 0.58 |
| minibend L-3.5 | 32024-2-29094C-3.5 | 3.50 (88.9) | 1.16:1 | 0.15 | 1.25:1 | 0.39 | 1.37:1 | 0.51 | 1.45:1 | 0.63 |
| minibend L-4 | 32024-2-29094C-4 | 4.00 (101.6) | 1.16:1 | 0.16 | 1.25:1 | 0.42 | 1.37:1 | 0.54 | 1.45:1 | 0.67 |
| minibend L-4.5 | 32024-2-29094C-4.5 | 4.50 (114.3) | 1.16:1 | 0.17 | 1.25:1 | 0.45 | 1.37:1 | 0.58 | 1.45:1 | 0.72 |
| minibend L-5 | 32024-2-29094C-5 | 5.00 (127.0) | 1.16:1 | 0.18 | 1.25:1 | 0.48 | 1.37:1 | 0.62 | 1.45:1 | 0.76 |
| minibend L-5.5 | 32024-2-29094C-5.5 | 5.50 (139.7) | 1.16:1 | 0.19 | 1.25:1 | 0.51 | 1.37:1 | 0.65 | 1.45:1 | 0.80 |
| minibend L-6 | 32024-2-29094C-6 | 6.00 (152.4) | 1.16:1 | 0.20 | 1.25:1 | 0.54 | 1.37:1 | 0.69 | 1.45:1 | 0.85 |
| minibend L-6.5 | 32024-2-29094C-6.5 | 6.50 (165.1) | 1.16:1 | 0.21 | 1.25:1 | 0.57 | 1.37:1 | 0.72 | 1.45:1 | 0.89 |
| minibend L-7 | 32024-2-29094C-7 | 7.00 (177.8) | 1.16:1 | 0.22 | 1.25:1 | 0.60 | 1.37:1 | 0.76 | 1.45:1 | 0.94 |
| minibend L-8 | 32024-2-29094C-8 | 8.00 (203.2) | 1.16:1 | 0.25 | 1.25:1 | 0.66 | 1.37:1 | 0.84 | 1.45:1 | 1.03 |
| minibend L-9 | 32024-2-29094C-9 | 9.00 (228.6) | 1.16:1 | 0.26 | 1.25:1 | 0.73 | 1.37:1 | 0.91 | 1.45:1 | 1.12 |
| minibend L-10 | 32024-2-29094C-10 | 10.00 (254.0) | 1.16:1 | 0.28 | 1.25:1 | 0.79 | 1.37:1 | 0.98 | 1.45:1 | 1.21 |
| minibend L-11 | 32024-2-29094C-11 | 11.00 (279.4) | 1.16:1 | 0.30 | 1.25:1 | 0.85 | 1.37:1 | 1.06 | 1.45:1 | 1.30 |
| minibend L-12 | 32024-2-29094C-12 | 12.00 (304.8) | 1.16:1 | 0.31 | 1.25:1 | 0.91 | 1.37:1 | 1.13 | 1.45:1 | 1.39 |
| minibend L-13 | 32024-2-29094C-13 | 13.00 (330.2) | 1.16:1 | 0.33 | 1.25:1 | 0.97 | 1.37:1 | 1.20 | 1.45:1 | 1.48 |
| minibend L-14 | 32024-2-29094C-14 | 14.00 (355.6) | 1.16:1 | 0.35 | 1.25:1 | 1.03 | 1.37:1 | 1.28 | 1.45:1 | 1.57 |
| minibend L-15 | 32024-2-29094C-15 | 15.00 (381.0) | 1.16:1 | 0.37 | 1.25:1 | 1.10 | 1.37:1 | 1.35 | 1.45:1 | 1.66 |
| minibend L-16 | 32024-2-29094C-16 | 16.00 (406.4) | 1.16:1 | 0.39 | 1.25:1 | 1.17 | 1.37:1 | 1.42 | 1.45:1 | 1.75 |

## Environmental Limits:

**Temperature Range:** -55°C to +165°C

**Thermal Shock:** per Mil-Std-202, Method 107, Test Cond. A

**Vibration:** per Mil-Std-202, Method 214, Test Cond. B

**Shock:** per Mil-Std-202, Method 213, Test Cond. A, 40Gs

## Phase Versus Flexure Reference Data

Astrolab performed phase tests on hundreds of minibend cable assemblies. Following are two standard Astrolab tests with the corresponding data. In test one minibend® L-6 assembly's were flexed 90° in a 0.25 inch radius directly behind the connector. In test two, minibend® L-16 assemblies were flexed 180° with a 0.4 inch radius in the middle. Typical data is recorded here:

| | TEST ONE | TEST TWO |
|---|---|---|
| 26.5 GHz. | 1.3° | 0.8° |
| 18 GHz. | 0.9° | 0.7° |
| 12.4 GHz. | 0.7° | 0.4° |
| 1 GHz. | 0.1° | 0.1° |

**Select Part No.:** minibend L-10 Add to Cart

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